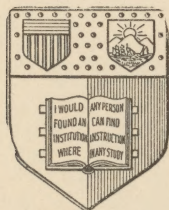


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New York
State College of Agriculture
At Cornell University
Ithaca, N. Y.

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1885.

SECOND EDITION.

16,000.

THE NATIONAL
Incubator AND Brooder

74 South Ave

Rochester, N.Y.

MANUFACTURED BY

E. R. BADGER,

~~Box 438.~~

~~BROCKPORT,~~ - - N. Y.

BREEDERS' SUPPLIES A SPECIALTY.

Speaker Printing Co., 120 Griswold St., Detroit, Mich.

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INTRODUCTION.

THE Machine illustrated and described in this circular, embodies the principals employed in the construction of the NATIONAL INCUBATOR. We have spared no pains or expense to improve it in every possible way, and to keep fully up to the standard. The NATIONAL, has not been in the market but a short time, and it has earned for itself a reputation second to none. It has been improved from time to time, until now it is one of the Best Incubators in the country. We do not claim the NATIONAL to be absolutely perfect as other manufacturers do for their machines, but we do claim that it has a hatching record that has never been equalled up to the present time, and can prove the same to be true. Remember this machine is not guaranteed to run three weeks without attention, as it must be attended to twice or three times a day—to turn eggs or fill and trim lamps.

I have not operated Incubators without learning something, and whenever a practical idea could be gained by experience in manufacturing and operating my own as well as machines of other make, and also at any time that information could be gained by observation or reading of the efforts of others, successful or otherwise, either in building or managing artificial hatchers, I have put the ideas to practical test, discarding or modifying as the case seemed to require, until I do now confidently believe that I am offering you the most practical, as well as the most simple hatcher ever sold in America or elsewhere, and I believed that an intelligent and appreciative public will reward me for all my efforts as liberally in the future as they have in the past, and I hope to always be able to fully satisfy all my customers.

DISCRIPTION OF INCUBATOR.

THE HEAT in the NATIONAL is supplied from above the eggs by a heater which covers the whole top of the egg drawer.

THE HEATER is made of seasoned material and will not shrink when the heat is applied. It burns less oil and generates more heat than any other machine made.

REGULATION OF HEAT:—A great point in artificial hatching, is to keep the temperature reasonably even, for which purpose all the so called self-regulating contrivences have been invented, all of which are so complicated and get out of order so easily, that no dependence can be placed upon them. When the regulating machinery has to be set in motion by one or two degrees of extra heat, it follows, that a correspondingly small force will stop it; and as it requires adjusting from time to time, whether out of order or not, it will readily be seen that those contrivences are self-regulating only in name.

THE EGG DRAWER is made with a slat bottom and on which is placed a sliding rack, with bars across it. Between the bars of this sliding rack we place the eggs, a quarter of an inch apart. It has moving space enough so as to turn the eggs half over as is necessary in all cases. An Incubator made without this devise, is of no earthly use; because the germ and embryo chick must float on top of the yolk, as it turns over. When the egg is exposed to the heat the yolk gradually settles, and if the egg remains in one position long enough, the yolk will naturally settle down to the shell, and there it will remain; then the egg, for hatching purposes, is utterly useless.

THE NATIONAL INCUBATOR has no machinery or electric battery to get out of order.

THE TEMPERATURE is indicated by a thermometer placed in the drawer, on top of the slats between the first and second rows of eggs, and is easily regulated by turning the wick of the lamp up or down as may be needed. When once it is set it requires very little attention, and there is absolutely no necessity for touching it during the night and hardly during the day. This matter of regulation may be relied upon, as the machine has been in use some time, and we have yet to hear of a complaint in that direction.

THE MOISTURE is supplied in exact imitation of nature—from below. The application is by means of open pans or sponges filled with water placed in the ventilator box below the drawer. The evaporation, which is continuous, can be seen to be perfectly natural, as the heat from the hens body draws the moisture from the ground where she makes her nest in a wild state.

THE VENTILATION is supplied by the ventilators at the bottom of the machine. By this means the eggs are kept in their natural state and insures better incubation than any other way known. The impure air, or the carbonic acid gas that is thrown off by the embryo from time to time, falls to the bottom and is carried through the ventilators by the counter currents of fresh air which is constantly passing through the chamber underneath the eggs.

Price and Capacity as follows:—

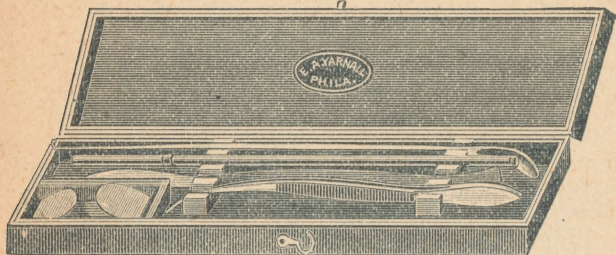
NATIONAL INCUBATOR.

No. 1	100 eggs capacity,	-	-	-	\$12.00.
"	2 250 "	-	-	-	18.00
"	3 500 "	-	-	-	25.00

BROODERS:—No.1 \$2.00 No.2 \$2.75 No.3 \$4.00

Hereafter, every Incubator and Brooder when shipped, will be complete and ready to run.

CAPON INSTRUMENTS



Spoon Forceps.

Instrument for Making Capons,

with full printed instruments.

E. A. YARNALL,

115 South 10th St.,

PHILADELPHIA, - PA.

Manufacturer and Importer of

FINE CUTLERY

and

Surgical Instruments.

PURE BONE AND OYSTER SHELL FOR POULTRY.

Fresh Ground Bone Meal,.....	Per 100 lbs..	\$4 25
" Granulated Bone,.....	" 100 "	4 00
" Prepared Oyster Shell,.....	" 100 "	2 60

Sent by freight on receipt of Price, Sample by mail 6 cents.

These goods are manufactured expressly for **POULTRY**, and much care is taken in obtaining the raw material in a pure and healthy condition. No poultry keeper can afford to be without these goods.

I also breed choice

WYANDOTTE AND PLYMOUTH ROCK FOWLS.

Eggs for Hatching Wyandotte,.....	Per 13..	\$2 00
Plymouth Rock,.....	" 13..	1 50

Fowls for Sale after September 1st.

Send for Circulars.

P. H. SPRAGUE,

178 South Water St., Chicago, Ill.

ROSS, SHIELDS & CO.

Rochester, Indiana.

Breeders of High Class. Pure Breed.

**WYANDOTTE, WHITE COCHIN, BLACK COCHIN,
LANGSHANS, S. C. B. LECHORN, R. C. B. LECHORN,
AND PLYMOUTH ROCKS.**

Our breeding pens are composed of High Class, High Scoring Birds, mated to produce the best desired results. You may expect premium birds from our eggs, as our pens are headed by

PREMIUM BIRDS.

Eggs, from either breed,.....	Per 13..	\$2 00
or 39 eggs for \$5 00		

Order early as we are booking orders a head. No stock for sale before October 1st.

G. M. Overleese,

BOX 301.

Dallas, Texas.

Makes a specialty of rearing early

SHOW BIRDS AND BREEDERS

for Northern parties, either from my own pens or on the shares.

Owing to **Climatic Advantages**, I can produce the

Finest Fowls in the World.

My trade extends from

MEXICO to CANADA.

Abundant capital and no reason for stinting in the purchase of my
Breeder's. Chicks or Grown Birds for Sale the Year Around.

Correspondence a Pleasure. Postals Noticed.

Reference:—All BANKS of DALLAS.

CARE OF POULTRY.

Directions.—1st. Construct your house good and warm, so as to avoid damp floors and afford a flood of sunlight. Sunshine is better than medicine.

2d. Provide a dusting and scratching place where you can bury wheat and corn and thus induce the fowls to take needful exercise.

3d. Provide yourself with some good healthy chickens, none to be over three or four years old, giving one cock to every twelve hens.

4th. Give plenty of fresh air at all times of the year, especially in the summer.

5th. Give plenty of fresh water and never allow the fowls to get thirsty.

6th. Feed them systematically two or three times a day, and scatter the food so they cannot eat too fast or without the proper exercise. Do not feed more than they will eat up clean, or they will get tired of that kind of food.

7th. Give soft meal in the morning and the whole grain at night, except a little wheat or cracked corn scattered in the scratching place to give them exercise during the day.

8th. Give them a variety of both dry and cooked food. A mixture of cooked wheat and vegetables is an excellent thing for a morning meal.

9th. Above all things keep the hen house clean and well ventilated.

10th. Do not crowd too many into one house. If you do look out for disease.

11th. Use Carbolic Powder in the dusting bins occasionally, to destroy lice.

12th. Wash your roosts and bottom of laying nests and whitewash once a week in Summer, and once a month in Winter.

13th. Let the old and young have as large a range as possible—the larger the better.

14th. Do not breed too many kinds of fowl at the same time, unless you are going into that business.

15th. Introduce new blood into your stock every year or so, by either buying a cockerel or setting a few eggs from some reliable breeders.

16th. In buying birds or eggs, go to some reliable breeder who has his reputation at stake. You may have to pay a little more for birds, but you can depend upon what you get.

Culls are not cheap at any price.

CHAS. V. GROSS,

Manufacturer and Dealer in

Incubator Lamps

and

Poultry Supplies.

Drinking Fountains,

Egg Trays,

Egg Testers,

Galvanized Wire Netting

TESTED INCUBATOR THERMOMETERS.

Eureka Improved Felt Roofing,

AND TAR ROOFING.

2117 and 2119 State Street,

CHICAGO,

-

-

ILL.

POULTRY FOR SHOW.

To fit poultry for show, feed buckwheat. Russian sun-flowers planted in the yards are a great assistance. The chickens will pull the seeds off themselves, and it gives the plumage a peculiar lustre, which is very beautiful. These do not want to be fed alone, but with other food. Give the hens all the fresh water they will drink. Keep the water in iron vessels or throw some old iron into the drinking vessels.

CHEAP POULTRY HOUSES.

We find that the best and most successful plan to manage and make fowls pay, is to scatter them over a large range in fields and orchards. For this purpose, cheap, convenient and comfortable houses are the best. My plan is to build a house 16 feet long and 8 feet wide, and $7\frac{1}{4}$ feet front facing South, and $4\frac{1}{2}$ feet back, boarded up tight and battened, with a shed roof, shingled. Sills are 2 by 4 inch plank, halved together at the corners. Plates same size. Rafters 2 by 2. Lay the sills on sleepers, on these lay a tight floor, cover with earth 4 to 6 inches deep, removing and renewing once a month or sooner. This keeps the fowls dry, warm and healthy. Place an entrance door near one end on the front, and at least two windows with 8 by 10 lights. Divide into two compartments with partition doors across the middle. Fix ventilators at the highest point in each end, sheated, to exclude storm and wind.

Erect roosts 20 inches high, for 20 fowls, with a movable nest or two, and a box partly filled with dust and ashes, and then you are ready for business. 40 large fowls can be accommodated and thrive well. Since the house is double, we are in shape to run two breeding yards.

All those answering advertisements, please state, that you saw them in the National Incubator Catalogue.

VARIETIES.

If you wish to keep chickens to produce eggs for the market, the Leghorns, Polands, Hamburgs, Houdans and Spanish are among the best. The Leghorns and Spanish are not well calculated for the icy regions, unless well protected. But the above varieties are non-setters and great layers. If you wish to raise chickens to sell alive, when from six to ten weeks old or when broilers, the Houdans are undoubtedly the best, as they will weigh more at that age, are better feathered, and are far more attractive than any other breed. The time to raise Houdans for early market is from Jan. 1st. to June 1st.

If you wish to raise a variety to ship dressed, the Langshans are the best, as they look much the best when dressed and have a peculiarly good flavor when cooked, that makes them sell much higher than any other variety when dressed. The Langshans are very large and handsome, being almost as attractive as the Houdans and much larger. These two varieties are the best to raise for the market.

WHAT IS GOOD FEEDING.

A warm breakfast, consisting of corn and oats ground together and wet with half its bulk of good sweet wheat bran. Of this, give about as much as they will eat up clean. Then a drink of fresh water, after, as many oyster shells cracked as they want to eat. If you cannot get them, keep lime and gravel where the chickens can have constant access to it. Now suspend a head of cabbage within easy reach of the hens. Get a sheaf of oats or wheat and put it where the hens can get at it. At noon give them a little buckwheat or screenings. Throw it among the straw they have been scratching at, then give them more fresh water. At night a full feed of corn, warmed or wet with hot water. Nothing is better to keep poultry in good health than raw onions chopped fine and mixed with other feed twice a week. To fatten, give them warm cooked feed. Give equal parts of beets, or potatoes and corn meal well cooked, and feed this three times a day with an occasional mixture of barley and lime. Shut in dark place, only giving them light when eating, as they will fatten much better in the darkness than in the light, as they remain quiet nearly all the time. You can fatten in ten days as fat as need be for any market.

PRIZE POULTRY.

DENMAN'S

Wyandottes and Plymouth Rocks,

Won all the

High Honors

At Worcester, Mass., in 1883 & 1884,

and Lowell, Mass., in 1883.

The Practical Farmers' Fowl for Eggs and Market.

Unsurpassed as great layers of large eggs. Quick to mature. The
leaders for beauty. Also choice

WHITE LECHORNS AND LIGHT BRAHMAS.

Stamp for circulars. All who enclose stamp and say where they
saw Ad will receive a handsome chromo of

WYANDOTTES IN TWO COLORS.

L. C. DENMAN,

Coshocton, O.

**Grind Your Own Bone Meal, Oyster
Shells and Corn in the \$5 Hand
Mill (F. Wilson's Pat.)**

Circulars Free. Address,

WILSON BROS., Easton, Pa.



PRESNO, CAL., April 20, 1881.

FRANK WILSON:—The mill came safely to hand and is perfectly satisfactory; indeed, it more than meets my expectations, as I find I can grind shells in it myself, which I thought I might not be able to do. My neighbors who have tried it pronounce it "splendid."

Respectfully,

JENNIE P. MOORE.

SHILOH, N. Y., Cumberland County, Feb. 4, 1884.

WILSON BROS. Dear Sirs:—I received the bone and shell mill you sent in the fall. Should have acknowledged the receipt of it sooner, but wanted to give it a fair trial, which I have done, and would recommend it to all who keep poultry. I would not take twenty-five dollars for mine if I could not get another. P. S.—To prove my assertions above, while my neighbors, during the month of January, were getting out 2 or 3 eggs a day, I was from 20 up to 41 per day. From January 1st to the 31st inclusive, I got 792 eggs from my flock. I have callers almost every day to see the mill.

Yours truly,

GEORGE BONHAM.

MANUFACTURED ONLY BY

Wilson Brothers,

43, 45 & 47 DELAWARE ST.,

Easton, Pa.,

U. S. A.

GROUND OYSTER SHELLS.

10 lb	\$ 45
25 "	1 00
50 "	1 75
100 "	2 50

BONE MEAL.

10 lb	\$ 50
25 "	1 15
50 "	2 00
100 "	3 50

Tar Felt Paper for Roofing, put up in rolls of 250 to 400 square feet, according to thickness. Price per Roll,\$2 00

Corn Shellers, durable, and Effective, shells 12 to 14 bushells per hour. Price,\$5 00

Nickle Pated, 6 00

Egg Testers, Handy and Durable. Price, 25

Address all orders to

E. R. BADGER,

Box 438.

Brockport, N. Y.

CAPONIZE YOUR FOWLS.

Send in your orders to E. R. Badger, Brockport, N. Y., Box 438. Agent for the Yarnall Caponizing Instruments. Price per set, \$4 00, with Spoon Forceps \$1 00 extra. The Spoon Forceps are a great help in performing this operation.

"Pennsylvania's Great Turkey Farm."

D. D. FISHER, Prop.

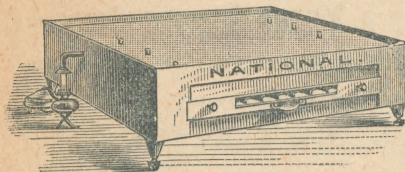
I am breeding the following varieties:

**Light Brahmas, Plymouth Rocks, Silver Duck-
wing Game Bantams, White and Brown
Leghorns and the Mammoth Bronze
Turkeys.**

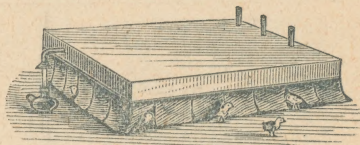
My Brahmas are noted for their extra large size, great winter layers and almost non-setters. My other varieties are second to none. My turkeys have no superior in America. Correspondence cheerfully answered. Write for prices and turkey circulars. Eggs prove fertile and packed to travel any distance.

NATIONAL INCUBATOR AND BROODER.

Below we give a cut of the famous **National Incubator and Brooder**. They have been pronounced by professional to be as simple and effective as any that are manufactured and we propose to simplify it still more before it will be called perfect.



INCUBATOR.



BROODER.

The following books sent free on receipt of price:

How I made money,—by John's Wife.....	\$ 30
How to Propagate and Grow Fruit,.....	30
Everybodies' Paint Book,.....	1 00
Moore's Universal Assistant,.....	2 50
Farm and Stock Cyclopedia,.....	4 50

Address all orders to

E. R. BADGER,
Brockport, N. Y.

Box 438.

HOW I MADE MONEY AT HOME with the Incubator, Bees, Silkworms, Canaries, Chickens, and one Cow, by **John's Wife**.—Any Woman will—if she can; Any Woman can—if she will.

HUNTER MAC CULLOCH,
1828 Reed Street, PHILADELPHIA, PA.

HAVE YOU SEEN IT!

"The Poultry Nation"

A handsomely Illustrated 20 page monthly, devoted to poultry and pet stock in all its branches.

ONLY 75 CENTS A YEAR—SAMPLE COPY

Cheapest Poultry Magazine in America

Published the 1st of each month by

S. E. WURST,

Elyria,

Oh

OUR ILLUSTRATED POULTRY BOOK for 1885 is now in the hands of our publishers. It tells more about Poultry and Poultry raising than any \$3.00 book in the U.S. It tells how we raised and kept two thousand fowls, and gathered 40,000 eggs on four acres. Also how to raise broilers for 15 cents and where to sell them at 60 to 75 cents each. It is the experience of a poultry raiser who commenced five years ago with \$20.00 and whose profits in 1884 were about \$0,000. Price 25 cents. Stamps taken. Price lists free. **R. B. MITCHELL & CO.** 24 McCormick Block, Chicago.



ENGRAVING DIRECT FROM
NO DRAWING REQUIRED.
NO HAND WORK NECESSARY.
SEND CHEAP, ARTISTIC
FOR CROSSCUP & WEST ENG. CO.
PARTICULARS 702 CHESTNUT ST. PHILA. PA.

PRINTING.

Before ordering elsewhere send for estimate on all kinds of Fancy Poultry Printing, gotten in a neat, satisfactory style. Goods sent C. O. if desired. Address all orders to **E. R. BADGER,** Box 438, Brockport, N.

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Binder**
Gaylord Bros., Inc.
Makers
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